

Natural Product Reports 40th Anniversary Symposium Programme
Friday November 8th 2024

08:00	Registration
08:40	Welcome Address (Katie Lim, Tobias Gulder, Rolf Müller)
09:00 to 11:00	Session 1 – Discovery (Chair: Chantal Bader)
09:00	Margherita Sosio – Naicons Srl <i>Micro4all, an Innovative Drug Discovery Platform</i>
09:30	Dong-Chan Oh – Seoul National University <i>Genomic and Spectroscopic Signature-Based Discovery of Bioactive Natural Products from Bacteria</i>
10:00	Cassandra Quave – Emory University <i>Ethnobotany as a tool for targeted natural products discovery</i>
10:30	Christine Beemelmans – Helmholtz Institute for Pharmaceutical Research <i>Microbial Symbionts as a Source of Novel PKS-NRPS Hybrid Biosynthetic Pathways and their Natural Products</i>
11:00 to 11:30	Break
11:30 to 13:30	Sessions 2 – Tools and Technology (Chair: tba)
11:30	Nadja Cech – University of North Carolina, Greensboro <i>Overcoming Challenges in Active Compound Prediction for Natural Product Mixtures</i>
12:00	Roger Linington – Simon Fraser University <i>Compound-Centric Mass Spectrometry Data Analysis Software for Natural Products Discovery</i>
12:30	Heike Brötz-Oesterhelt – University of Tübingen <i>Natural Product Antibiotics with Sophisticated Modes of Action and Resistance</i>
13:00	Chengzhang Fu – Helmholtz Institute for Pharmaceutical Research <i>Novel Genome Mining Methods Expedite Natural Product Discovery and Biosynthesis Study from Bacteria</i>
13:30 to 14:30	Lunch
14:30 to 16:30	Session 3 – Biosynthesis and Biotechnology (Chair: Florian Hubrich)
14:30	Eriko Takano – University of Manchester <i>Engineering biology for natural products</i>
15:00	Changsheng Zhang – South China Sea Institute of Oceanology, CAS <i>Mechanistic Insights into the P450-Catalyzed Intramolecular Phenol Coupling Reaction in the Biosynthesis of Cihanmycins</i>
15:30	Alessandra Eustaquio – University of Illinois at Chicago <i>Reverse genetics and synthetic biology for natural product discovery</i>
16:00	Andriy Luzhetskyy – Saarland University <i>Exploring Natural Product Pathways: Beyond Conventional Biosynthetic Hypotheses</i>
16:30 to 17:00	Break

- 17:00 to 19:00** **Session 4 – Synthesis and Biocatalysis (Chair: Alexander Kiefer)**
- 17:00 **Tobias Gulder** – Helmholtz Institute for Pharmaceutical Research
Biocatalytic total synthesis of sorbicillinoids
- 17:30 **Hidetoshi Tokuyama** – Tohoku University
Bioinspired total synthesis of structurally complex alkaloids
- 18:00 **Chris Vanderwal** – University of California, Irvine
Bioinspired Total Synthesis of Two Alstonia Alkaloids Leading to Potential Revisions of their Biogenesis
- 18:30 **Uli Kazmaier** – Saarland University
Flexible Protocols in Natural Product Syntheses
- 19:00** **Farewell and Reception**